

WHAT IS CLAIMED IS:

1. A curtain air bag device, comprising:

a curtain air bag back plate including a first body into which a curtain air bag is provided, the first body adapted to be cut at one end thereof in a direction where the curtain air bag is deployed and one or more flexible first coupling end portions each extended from the edge of the one side of the first body and having a first through hole, a cut part, and a first coupling hole;

a front pillar trim including a plurality of detachable mounting support parts formed on one side thereof, coupling pins secured on one end thereof to correspond to the detachable mounting support parts and detachably coupled to a front pillar panel on the other end thereof by passing through the cut part and the first coupling hole corresponding thereto, and a coupling support part protruded on one side adjacent to a second through hole formed on each of the both ends thereof in such a manner as to correspond to the second through hole;

a plurality of mounting support members each including a hollow type of second body having a screw coupling hole formed on one surface thereof and opened on the other surface thereof and a coupling end portion having an end extended from the edge of the one side of the second body, the end having a coupling hole formed thereon; and

a plurality of fixing parts each including a first coupling bolt passed through the coupling hole corresponding thereto to be coupled to the coupling support part, and a second coupling bolt passed sequentially through the second through hole, the screw coupling hole, and the first through hole corresponding thereto in such a manner as to be inserted into the corresponding portion of the front pillar panel.

2. The curtain air bag device according to claim 1, wherein the first body of the curtain air bag back plate has a section in the shape of a trapezoid such that the length of

one surface on which the cut part is formed is substantially shorter than that of the opposite surface.

3. The curtain air bag device according to claim 1, wherein the first through
5 hole is provided with a metal reinforcing member for enhancing the rigidity of the first
through hole, the reinforcing member includes a hollow type of body inserted into the inside
of the first through hole and a locking end portion that is placed on the surface of the first
coupling end portion in such a manner that the outer peripheral surface of one end of the
hollow type of body has an outer diameter larger than the inner diameter of the first through
10 hole.

4. The curtain air bag device according to claim 1, wherein the coupling end
portion of each of the mounting support members is coupled to each of the coupling support
parts by means of each of the first coupling bolts, and the second body of each of the
15 mounting support members is disposed in such a manner that the center thereof is on the
same line as the center of each of the second through holes.

5. The curtain air bag device according to claim 1, further comprising a stopper
adapted to be inserted from the opposite direction of the front pillar trim on which the
20 mounting supporting members are placed such that the second through hole is opened and
closed, the stopper having a plurality of locking ends formed on one side thereof in such a
manner as to be passed through the second through hole and locked to the one side of the
front pillar trim.

25 6. A curtain air bag device, comprising:

a front pillar trim defining at least one hole therethrough and including at least one detachable mounting support member;

coupling pins coupled on a first end with the detachable mounting support member and coupling on a second end with a front pillar of a vehicle;

5 at least one mounting support member coupling the front pillar trim with the front pillar;

a flexible curtain air bag back plate configured to couple between said front pillar trim and the front pillar by said coupling pins and said mounting support member; and

10 an air bag chamber comprising a flexible substantially box shaped chamber open along one side wherein said air bag chamber is coupled with said flexible air bag back plate.

7. The device of claim 6, wherein said air bag chamber is substantially trapezoidal in cross section.

15 8. The device of claim 6, wherein said flexible curtain air bag back plate further comprises reinforcing members reinforcing the coupling between said mounting support member and said flexible curtain air bag back plate.

20 9. The device of claim 8, wherein said reinforcing member is substantially a metal washer shaped device.